

COLLABORATION PROPOSAL

Generality

This collaboration proposal refers to the experimental testing of a mechanical device of mine, whose function is one of a movable bearing for the purpose of earthquake isolation.

This is a new bearing with double inclined sliding surface and with a low, sliding or rolling, friction coefficient, which, during an earthquake, allows the rigid translation of the foundation-soil complex with respect to the building, which in turns remains almost immobile.

After the earthquake, the building self-centering takes place spontaneously. The analytical analysis emphasizes that the seismic energy in the building is minor – about 1% of the building weight -, if the bearing is with sliding friction, and it is negligible if the bearing is with rolling friction.

The energy in the building is independent both of seismic frequency and of the soil displacements. Moreover, the psycho-physical discomfort in the inhabitants is negligible.

This bearing needs careful experimental testing in order to check its potential application effectiveness.

The proposal

Should anyone – particularly an Earthquake Engineering Research Centre – be interested in a collaboration relationship, both with regard to experimental testing of the proposed bearing and in relation to its potential sale, please contact me, but only under the following conditions:

1. that he/it is willing to meet totally the financial expenses for conducting the experimental tests;
2. that he/it is willing to meet the financial expenses for an international patent to the limit of 50%;
3. that he/it is willing to divide the financial profits to the limit of 50%, arising from the potential sale of the previously tested and patented device.

The above three points must be accepted by the contracting parties, and formulated and signed in a legal deed according to legal requirements.

Partial figure of the bearing

